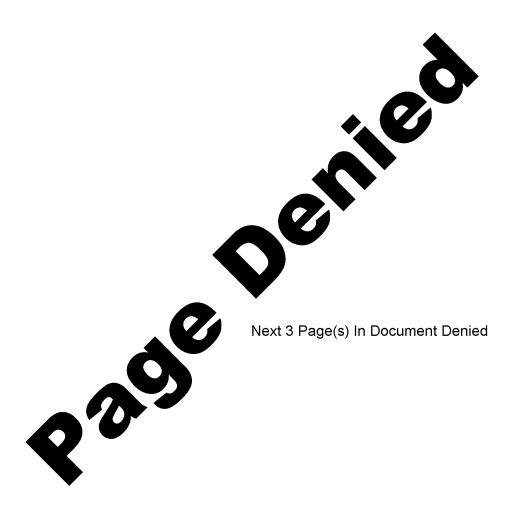
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## The Need to Increase the Rate of Conducting Reconnaissance by General-Mayor A. Kuzichev Colonel I. Donskoy

Experience from command-staff and troop exercises, in our opinion, shows that the rate of conducting reconnaissance does not correspond to modern means of armed combat and the capabilities of these means. The reasons for this are:

- -- a significant time gap between the detection and destruction of nuclear targets and other important enemy targets;
- -- a great expenditure of time for orientation, topographic tie-in, and determination of the precise coordinates of reconnoitered targets during the day and especially at night and under conditions of limited visibility;
- -- poor cross-country capability of organic technical means of radio, radar, and radiotechnical reconnaissance and of other reconnaissance means off roads (on terrain of average ruggedness);
- -- the absence, within troops of an army and in large units, of organic means for aerial observation of the battlefield and for the transfer of reconnaissance elements to the enemy rear across extensive zones of contamination and areas of destruction and also for maneuvering reconnaissance in wide zones of advance;
- -- inadequate equipping of reconnaissance units and subunits with fire and sabotage means. Their supplementary reinforcement with tanks makes them more cumbersome and does not solve the problems of securely approaching a target and attacking it by surprise;
- -- the limited range of radio communications and the complicated system of secure control of recommaissance elements which leads to their forced holding within intermediate areas (lines) and to a significant expenditure of time on encoding and decoding radio messages.

It appears to us that methods of increasing the rate of conducting reconnaissance in the battle and the operation must be sought mainly in the direction of eliminating the indicated shortcomings. In order to accomplish this, the following are first necessary.  $^{50\rm X1-HUM}$ 

First, to allocate the tasks for the reconnaissance of enemy means of mass destruction and other important enemy targets among the personnel who

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are executing the tasks, in accordance with the importance of the targets, with their distance from the forward edge, and with the time of their readiness to open fire.	
As an example, we may take the possible allocation of tasks for reconnaissance of low-yield nuclear means: 155-mm and 203.2-mm howitzers and Davy Crockett recoilless gums. These means comprise up to ninety percent of the total number of nuclear gums and launchers of a reinforced army corps. They are all at a distance of 0.5 to six to eight kilometers from the forward edge. They can fire in no more than three to seven minutes after occupying their siting areas. In our opinion, combat against these nuclear means (detecting and destroying them) must be made the responsibility mainly of motorized rifle, tank, artillery, mortar, and other subunits of the ground forces participating in the battle. However, the main efforts of reconnaissance means of the army and the large units should be concentrated on the timely detection of the bases, depots, and supply points of enemy nuclear weapons, the airfields of their delivery aircraft, and the waiting areas and siting areas of operational-tactical missiles.	
Reconnaissance elements must be capable not only of detecting enemy nuclear targets but also of putting them out of action. It is obvious that for this purpose we should not follow the course of increasing the number of combat vehicles in their composition but should for the most part equip all reconnaissance vehicles with combat means which are of small size but effective: antitank guided missiles and recoilless guns, and in the future nuclear weapons as well.	
Second, we consider it impossible at the present time to speak seriously of increasing the effectiveness and rate of conducting reconnaissance unless we equip operational formations (the army) and large units with aerial reconnaissance means which have the necessary equipment for daytime and nighttime photography and for infrared, radiotechnical, and television observation.	
The availability of aerial reconnaissance subunits in the army and divisions ensures not only reinforcing the operating reconnaissance groups but also airlifting them across wide zones of contamination and destruction and into the enemy rear. $$^{50\rm X1-HUM}$$	
A reconnaissance group reinforced, for example, with a helicopter can quickly perform an initial terrain survey in the zone where reconnaissance is to be conducted, which ensures timely detection of the enemy, rules out	

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surprise conductir	encounters with him, and promotes a sharp increase in the rate of ng reconnaissance.
situation reconnais computati	rd, the system being used to predict the radiation and chemical a exerts a substantial influence on increasing the rate of sance. Many commanders and staffs today, using the congraphic method of assessing the radiation situation, proceed on
altitude remains o necessary enemy nuc employed check our bursts, b	and yield have already been established by someone and that it only to apply certain tables. Among the troops, unfortunately, the methods still do not exist for determining the coordinates of clear bursts, and it has not been determined what means can be for this purpose. The need has clearly become urgent for us to capabilities for determining the coordinates of enemy nuclear by means of experimental exercises, and to work out a single begy for the troops to follow.
topograph detected to four k and DSP-3 vehicles. location with stop radio dir service,	th, in order to sharply reduce the time for orientation, aic tie-in, and determination of the precise coordinates of targets, without entering the zone of ground covering forces (two cilometers), it is necessary to have topographic tie-in equipment to portable engineer range finders in command reconnaissance. Technical reconnaissance means must ensure the efficient of targets by intersection while the vehicles are in motion or as of minimum duration. In this regard, it is necessary that the rection-finders in the ultra-shortwave band which are currently in and the radars for artillery reconnaissance as well, be replaced mobile designs.
existing qualitati detecting radiation with reco	h, along with seeking out ways for more effective exploitation of reconnaissance equipment, the need has arisen as well to develop vely new reconnaissance equipment which works on the principle of targets by the radioactive, electromagnetic, and thermal they emit. In this connection, troops should not be equipped nnaissance equipment which already fails to meet the requirements t-day combat.
illuminat this is a any given our troops	hall take as an example a reconnaissance device, the IR-1 radar ion detector, which was issued to reconnaissance units. In concept, n indispensable device. It answers the question of whether, at moment, a column, a single vehicle, or other targets belonging to s are within the field of enemy radar illumination and whether the te is under observation by enemy radars. However, the value of

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In orde it, on	r for the device to operation, away from moving motion.	ecause the acoustic indicator avehicle with the engine running te, it is absolutely necessary tor vehicles. This certainly of conducting reconnaissance	g (underway). to walk with
communi	a communitications equipment	its must be equipped more quick ensuring stable, pretuned sec full depth of the combat task of	*****
equipped hermetic	d with weapons and instrum	for reconnaissance groups musts with a cross-country capabil ents, transportable by air, an eep radioactive dust and toxic	ity,
The degree of enemy's to make carriers	e personnel of reconnaissant of special training, in ma language and the ability parachute jumps, to drive	nce units and subunits must ha ny instances calling for knowl to make airborne and amphibiou motor vehicles and armored pe radiation and chemical reconna	edge of the s landings,
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